

Title (en)  
OPTICAL CONNECTOR POLARITY AND LOSS MEASUREMENT USING AN INTEGRATING SPHERE-EQUIPPED OPTICAL MEASUREMENT DEVICE

Title (de)  
POLARITÄTS- UND VERLUSTMESSUNG EINES OPTISCHEN STECKVERBINDERS UNTER VERWENDUNG EINER MIT EINER INTEGRIERTEN KUGEL AUSGESTATTETEN OPTISCHEN MESSVORRICHTUNG

Title (fr)  
MESURE DE POLARITÉ ET DE PERTE DE CONNECTEUR OPTIQUE AU MOYEN D'UN DISPOSITIF DE MESURE OPTIQUE ÉQUIPÉ DE SPHÈRE

Publication  
**EP 3389198 B1 20200304 (EN)**

Application  
**EP 18162412 A 20180316**

Priority  
• US 201715462645 A 20170317  
• US 201815865003 A 20180108

Abstract (en)  
[origin: EP3389198A1] An integrating sphere-equipped optical measurement device and optical connector polarity and type identification and loss measurement are provided. The optical measurement device includes at least two photodetectors that are optically responsive over different ranges of wavelengths. The optical measurement device receives one or more optical signals emanate from optical fibers of an optical fiber cable. The optical measurement device determines an optical intensity or loss of the one or more optical signals based on a measurement made by a corresponding photodetector whose responsivity range includes a wavelength of the one or more optical signals. The optical measurement device determines one or more respective positions where the one or more optical signals impinged on a sensor. The optical measurement device determines a polarity of the optical fiber cable based on both the one or more positions and one or more or transmitting positions of the one or more optical signals, respectively.

IPC 8 full level  
**H04B 10/079** (2013.01); **G01M 11/00** (2006.01); **G02B 6/42** (2006.01)

CPC (source: CN EP KR US)  
**G01M 11/3181** (2013.01 - EP US); **G01M 11/33** (2013.01 - CN); **G01M 11/337** (2013.01 - US); **G01M 11/35** (2013.01 - EP KR US); **G02B 6/2821** (2013.01 - KR); **G02B 6/29382** (2013.01 - KR); **G02B 6/385** (2013.01 - KR); **G02B 6/42** (2013.01 - US); **G02B 6/4219** (2013.01 - KR); **H04B 10/07955** (2013.01 - EP US)

Cited by  
WO2023055617A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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**EP 18162412 A 20180316**; CN 201810220263 A 20180316; JP 2018049508 A 20180316; KR 20180031079 A 20180316; US 201815865003 A 20180108